BR-449
31-8-16

AEE|KSD|SBR|120|16-17
dt-31|8|16

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. First and final bill:

Name of Work Improvements to Roads ~~From~~ and drains at ~~To~~ Ravishankar Residency layout in Ward No. 07, Kodigehalli sub division. 263647

Name of Contractor of nature of Agency ↳ Akhilesh. P

Date of commencement of work

Reference to last Measurement 8	Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		Est cost:-	30.00 lakhs					
		Job code | Order No:-	007-16-000054					
		Head of Account:-	P-1771					
		A.S.No:-	BBMP|JE|YNK|PR|					
		T.S.No:-	BBMP|CE|YNK|PR|					
		Agr No:-	No.EE|BTP|BBMP|Agr|					
		Workorder	No.EE|BTP|BBMP|E-PMT|					
		Date of commencement:-						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Premeasurements recorded on:						
	Item No. 01:-						
	Earthworks excavation by manual means in ordinary soil involving an average horizontal throw upto 2mts and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications complete as per specifications:-						
	Drain:-						
	1st cross road:-	01	14.00	1.00	0.75	= 10.50	
		01	13.00	1.00	0.75	= 9.75	

M. A. R. 57 (Rule 116) **No. B**

Measurement Book

263648

Serial No. ..... From..... To.....

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Reference to last Measurement 8	Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
ordinary		2nd cross road:-	01	13.00	1.00	0.75 =	9.75	
and an			01	12.00	1.00	0.75 =	9.00	
d sides		Sahakaranagara 'A' block	02	30.00	1.00	0.75 =	45.00	
y after			02	30.00	1.00	0.75 =	45.00	
e as per			02	30.00	1.00	0.75 =	45.00	
			02	10.00	1.00	0.75 =	15.00	
		Amruthahalli colony 2nd	02	30.00	1.00	0.75 =	45.00	
			02	25.00	1.00	0.75 =	37.50	
		CD's:-	03	10.00	2.00	1.00 =	60.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cross road [adjacent to Swathi - Garden hotel]	01	30.00	1.00	0.75 =	22.50	
		01	30.00	1.00	0.75 =	22.50	
		01	10.00	1.00	0.75 =	7.50	
	Cd-01	01	5.00	2.00	1.00 =	10.00	
						339.00	391.50 cum
						NDP AC	
	ROADS:-						
	1st cross road:-	01	30.00	10.00	0.10 =	30.00	
		01	10.00	10.00	0.10 =	10.00	
	2nd cross road:-	01	30.00	10.00	0.10 =	30.00	
		01	15.00	10.00	0.10 =	15.00	
	L shape road:-	01	30.00	10.00	0.10 =	30.00	

MEASUREMENT BOOK

	Dimensions			Contents	Reference to last Measurement
	Number 3	Length 4	Breadth 5	Depth 6	7	8
to	01	30.00	1.00	0.75 =	22.50	
	01	30.00	1.00	0.75 =	22.50	
	01	10.00	1.00	0.75 =	7.50	
	01	5.00	2.00	1.00 =	10.00	
					339.00	391.50 cum
					NDP AE	
	01	30.00	10.00	0.10 =	30.00	
	01	10.00	10.00	0.10 =	10.00	
	01	30.00	10.00	0.10 =	30.00	
	01	15.00	10.00	0.10 =	15.00	
	01	30.00	10.00	0.10 =	30.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263649

No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Item	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
	2	Number 3	Length 4	Breadth 5	Depth 6	7	8
	CF	01	30.00	10.00	0.10 =	30.00	
		01	30.00	10.00	0.10 =	30.00	
		01	30.00	10.00	0.10 =	30.00	
		01	10.00	10.00	0.10 =	10.00	
					TOTAL=	607.00	cum
					Supply N.D AE (WT)		
Item No. 12:-	Premeasurements recorded on:						
	Lead for disposal of debris by mechanical means:						
	shall be payable at carriage rates						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide page No. 2637		263649	→	607.00 cum		
				Ass. Engg. N.D.			
	Item No. 02:- Premeasurements recorded on: 01-06-16						
	Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed concrete laid in layers not exceeding 15cm, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of						

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
263649 → 607.00 cum				
1st NW.N.D to E(W9)				
recorded on: 01-06-16				
laying in position plain cement concrete				
@ 220 kgs with 40mm and down size				
coarse aggregate @ 0.892 cum and				
cum machine mixed, concrete. laid in				
, thick, well compacted, in foundation				
of all materials, labour, TOM of				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263650
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	machinery, curing complete as per specifications:						
	Drain bottom:						
	1st cross:-	01	14.00	1.00	0.15	= 2.10	
		01	13.00	1.00	0.15	= 1.95	
	2nd cross:-	01	13.00	1.00	0.15	= 1.95	
		01	12.00	1.00	0.15	= 1.80	
	Sahakaranagara	02	30.00	1.00	0.15	= 9.00	
	8' block dead end:	02	30.00	1.00	0.15	= 9.00	
		02	30.00	1.00	0.15	= 9.00	
		02	10.00	1.00	0.15	= 3.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Amruthahalli colony road	02	30.00	1.00	0.15 =	9.00	
		02	25.00	1.00	0.15 =	7.75	
	cd-03	03	10.00	2.00	0.15 =	9.00	
	cd-near swathi garden	01	5.00	2.00	0.15 =	1.50	
	Drain [adj rd to swathi gardenia hotel]	01	30.00	1.00	0.15 =	4.50	
		01	30.00	1.00	0.15 =	4.50	
		01	10.00	1.00	0.15 =	1.50	
						75.30 cum	
	Qty tcd to	74.10 cum					

CTC
Marwad

Nalpll. N.D
AE (WT)

UREMENT BOOK

Dimensions				Contents	Reference to last Measurement
mber 3	Length 4	Breadth 5	Depth 6	7	8
02	30.00	1.00	0.15 =	9.00	
2	25.00	1.00	0.15 =	3.75	
3	10.00	2.00	0.15 =	9.00	
1	5.00	2.00	0.15 =	1.50	
1	30.00	1.00	0.15 =	4.50	
1	30.00	1.00	0.15 =	4.50	
	10.00	1.00	0.15 =	1.50	
				75.30 cum	

.10 cum

Not fully N.D

AE (W7)

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

263651

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No.03:- Premeasurements recorded on 08-06-16						
	Providing and removing centering, shuttering, etretting, propping etc, and removal of formwork for foundation, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications:						
	1st cross road:-	04	14.00	0.75	-	= 42.00	
		04	13.00	0.75	-	= 39.00	
	2nd cross road:-	04	13.00	0.75	-	= 39.00	
		03	12.00	0.75	-	= 27.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measureme
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Sahakara nagara A'blk	03	30.00	0.75	-	= 67.50	
	(dead end)	03	30.00	0.75	-	= 67.50	
		03	30.00	0.75	-	= 67.50	
		03	10.00	0.75	-	= 22.50	
	Amruthahalli colony rd:-	04	30.00	0.75	-	= 90.00	
		04	25.00	0.75	-	= 75.00	
	cd-1	01	10.00	0.23	-	= 2.30	
	cd-2	01	2.00	0.23	-	= 0.46	
	cd-3	01	10.00	0.60	-	= 6.00	
	cd-4 - (Swathi gardenia hotel)	01	5.00	0.23	-	= 2.30	
	Drain	02	30.00	1.00	-	= 60.00	

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
30.00	0.75	-	= 67.50	
30.00	0.75	-	= 67.50	
30.00	0.75	-	= 67.50	
10.00	0.75	-	= 22.50	
30.00	0.75	-	= 90.00	
25.00	0.75	-	= 75.00	
10.00	0.23	-	= 2.30	
2.00	0.23	-	= 0.46	
10.00	0.60	-	= 6.00	
5.00	0.23	-	= 2.30	
30.00	1.00	-	= 60.00	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....263652
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
		02	30.00	1.00	-	= 60.00	
		02	10.00	1.00	-	= 20.00	
						688.06 sqm.	
	Qty ltd to 685.56 sq.m						
	Item No 04:- Prem easurements recorded on : 10-06-16						
	Providing and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15cm						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	thick layers and well compacted including vibrating curing etc, including smooth finish in CM 1:3, with all lead and lift etc, complete. (exclusive of cost of steel fabrication and plastering charges).						
	Side wall:-						
	1st cross road:-	02	14.00	0.60	0.10	= 1.68	
		02	13.00	0.60	0.10	= 1.56	
	2nd cross road:-	02	12.00	0.60	0.10	= 1.44	
		02	12.00	0.60	0.10	= 1.32	
	~~Sahakaranagara road:-~~	~~01~~	~~30.00~~	~~0.60~~	~~0.10~~	= ~~6.00~~	NDP AE(WZ)
	cd-	03	10.00	1.80	0.23	= 12.42	
	cd (near swathigarden)	01	5.00	1.80	0.23	= 2.07	

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, etc
1	2
	Drain (near gardenia hote
	Sahakaranaga
	Amruthahalli ee

REMENT BOOK

ber	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
acted	including vibrating curing				
ish	in CM 1:3, with all lead and lift				
est	of steel, fabrication and plastering				
02	14.00	0.60	0.10	= 1.68	
02	13.00	0.60	0.10	= 1.56	
02	12.00	0.60	0.10	= 1.44	
02	12.00	0.60	0.10	= 1.32	
01	~~30.00~~	~~0.60~~	~~0.10~~	= ~~6.00~~ ADD AE (nil)	
05	10.00	1.80	0.23	= 12.42	
01	5.00	1.80	0.23	= 2.07	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

263653

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Drain (near swathi	02	30.00	0.75	0.10	= 4.50	
	gardenia hotel)	02	30.00	0.75	0.10	= 4.50	
		02	10.00	0.75	0.10	= 1.50	
	Sahakaranagara main rd:	02	30.00	0.60	0.10	= 3.60	
		02	30.00	0.60	0.10	= 3.60	
		02	30.00	0.60	0.10	= 3.60	
		02	10.00	0.60	0.10	= 1.20	
	Amruthahalli colony rd:	02	30.00	1.80	0.23	= 24.84	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		02	25.00	0.90	0.23 =	10.35	
						82.68 cum.	

Qty Ltd to 82.55 cum

Agency No.0
At (WT)

Item No.05:- Premeasurements recorded on:- 15-06-16

Providing T.M.T steel reinforcement for R.C.C. works including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of wo
1	2
	wherever necessary
	not be measured
	Complete as per
	Drain:-
	10mm 'U' bars @
	total length
	8mm longitudin

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
25.00	0.90	0.23 =	10.35	
			82.68 cum.	
cum				
Ht (WH)				
recorded on:- 15-06-16				
el reinforcement for R.C.C. works				
utting, bending, hooking, placing in				
welding wherever required, tying				
anchoring to the adjoining members				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263654
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, hire of machinery complete as per specifications:						
	Drain:-						
	10mm ⌐U bars @ 10cm c/c:-						
	total length- 175		$(\frac{175}{0.1}+1)\times 2.1$		= 3677.10 Nos-mtr		
			@0.62	kg/mtr	= 2279.80 kg → (i)		
	From longitudinal bars		175 × 7		= 1225 Nos-mtr		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	@ 0.39 kg/mtr = 477.25 → (ii)						
	cds:-						
	16mm dia cranked bar (L=9.5m) @ 0.15m c/c.	= 9.5 / 0.15	= 63 x 1.25 x 1.75 = 137.81				
	@ 1.58 kg/mtr = 217.74 → (iii)						
	16mm dia uncranked bar.	= 62 x 1.75	= 108.50				
	@ 1.58 kg/mtr = 171.45 → (iv)						
	12mm dia: 1.75 / 0.18 = 10	= 10	2.0	10	@ 9.45 = 1890.00		
	@ 0.62 kg/mtr = 1171.80 → (v)						
			=> 4.14 tonne				

Qty ltd 4.04 tonne.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agenc
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.06:- Premeasu
	Scarifying th
	and disposal of see
	complete as per sp
	1st cross road:-
	2nd cross road:-

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
= 497.25 → (ii)				
= 63 x 1.	25 x 1.75 = 137.81			
8 kg/mtr	= 217.74 → (iii)			
1.75 =	108.50			
8 kg/mtr	= 171.45 → (iv)			
2.0	10	× 9.45 = 1890.00		
62 kg/mtr	= 1171.80 → (v)			
	⇒ 4.14 tonne			

nne.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263655

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Item No.06:- Premeasurements recorded on: 01-06-16						
	Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1000m complete as per specifications:						
	1st cross road:-	01	30.00	10.00	-	= 300.00	
		01	13.00	10.00	-	= 130.00	
	2nd cross road:-	01	30.00	9.50	-	= 285.00	
		01	15.00	9.50	-	= 142.50	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	3rd cross road:-	01	30.00	10.00	-	= 300.00	
		01	10.00	10.00	-	= 100.00	
	cross road towards shanthivana.	01	30.00	10.00	-	= 300.00	
		01	30.00	10.00	-	= 300.00	
		01	30.00	10.00	-	= 300.00	
		01	5.80	10.00	-	= 58.00	
						2215.50 Sqm	
	Qty ltd to 2215.00 Sqm					Asst. E.E. AE(W)	

Item No.06:- Premeasurements recorded on: 07-06-16
compaction of original ground with maximum of 6 passes

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	of 8 to 10 tonnes pow during rolling inclu as per specifications
	1st cross road:-
	2nd cross road:-
	3rd cross road:-

EMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
30.00	10.00	-	= 300.00	
10.00	10.00	-	= 100.00	
30.00	10.00	-	= 300.00	
30.00	10.00	-	= 300.00	
30.00	10.00	-	= 300.00	
5.80	10.00	-	= 58.00	
			2215.50 Sqm	

Sqm

Asstt. Lll. N.D
AE(W4)

recorded on: 07-06-16
inal gradient with maximum of 6 passes

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263656
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labours, tion of machinery complete as per specifications:						
	1st cross road:-	01	30.00	10.00	-	= 300.00	
		01	13.00	10.00	-	= 130.00	
	2nd cross road:-	01	30.00	9.50	-	= 285.00	
		01	15.00	9.50	-	= 142.50	
	3rd cross road:-	01	30.00	10.00	-	= 300.00	
		01	10.00	10.00	-	= 100.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	cross road towards Shanthivana:	01	30.00	10.00	- =	300.00	
		01	30.00	10.00	- =	300.00	
		01	30.00	10.00	- =	300.00	
		01	5.80	10.00	- =	58.00	
					TOTAL:	2215.0 Sqm	
						Asst Engg. N.D AE (W7)	
	Item. No. 08:- Premeasurements recorded on: 11-06-16						
	Providing, laying, spreading and compacting graded stone aggregate to wet-mix-macadam specification including						

erial No. .....
lame of Work .....
lame of Contractor of nature of
ate of commencement of work

Date	Full description, etc,
1	2
	premixing the
	carriage of m
	with paver fi
	compacting
	complete as
	1st crose
	2nd cross

ENT BOOK

Dimensions			Contents	Reference to last Measurement
ngth 4	Breadth 5	Depth 6	7	8
0.00	10.00	-	= 300.00	
0.00	10.00	-	= 300.00	
0.00	10.00	-	= 300.00	
5.80	10.60	-	= 58.00	
		TOTAL:	2215.0 sqm	

pllg. N.D
AE (W7)

corded on: 11-06-16

ading and compacting graded
nfacadam specification including

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

263657

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tippers to site, laying in uniform layers with pavers in sub base/ base course on well prepared surface and compacting with vibratory rollers to achieve the desired density complete as per specifications.						
	1st cross road:-	01	30.00	10.00	0.25	= 75.00	
		01	13.00	10.00	0.25	= 32.50	
	2nd cross road:-	01	30.00	09.50	0.25	= 71.25	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	3rd cross road:-	01	15.00	9.50	0.25	= 35.63	
		01	30.00	10.00	0.25	= 75.00	
		01	10.00	10.00	0.25	= 25.00	
	cross road towards	01	30.00	10.00	0.25	= 75.00	
		01	30.00	10.00	0.25	= 75.00	
		01	30.00	10.00	0.25	= 75.00	
		01	5.80	10.00	0.25	= 14.50	
						553.88 cum:	
	Qty ltd to	553.75 cum					
				Asstt. E (WT)	N.D		

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Item No.09:- Premeasu
	Providing and
	prepared surface of
	surface and spraying
	mechanical means co
	1st cross road:-
	2nd cross road:-

SUREMENT BOOK

Dimensions				Contents	Reference to last Measuremen
Number 3	Length 4	Breadth 5	Depth 6	7	8
01	15.00	9.50	0.25	= 35.63	
01	30.00	10.00	0.25	= 75.00	
01	10.00	10.00	0.25	= 25.00	
01	30.00	10.00	0.25	= 75.00	
01	30.00	10.00	0.25	= 75.00	
01	30.00	10.00	0.25	= 75.00	
01	5.80	10.00	0.25	= 14.50	
				553.88 cum:	
	553.75 cum				
	Applld. N.D AE (WH)				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency 263658
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Item No.09:- Premeasurements recorded on: 20-08-16						
	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications:						
	1st cross road:-	01	30.00	10.00	-	= 300.00	
		01	13.00	10.00	-	= 130.00	
	2nd cross road:-	01	30.00	9.50	-	= 285.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		01	15.00	9.50	-	= 142.50	
	3rd cross road :	01	30.00	10.00	-	= 300.00	
		01	10.00	10.00	-	= 100.00	
	cross road towards shanthivana :	01	30.00	10.00	-	= 300.00	
		01	30.00	10.00	-	= 300.00	
		01	30.00	10.00	-	= 300.00	
		01	5.80	10.00	-	= 58.00	
						2215.50 Sqm.	
	Qty ltd to 2215.00 Sqm						
	Approved - N.P (WT)						

Serial No. ..First and final
Name of Work ....Improvemen
Name of Contractor of nature of
Date of commencement of work

Date	Full description, etc, o
1	2
	Date of comple
	Date of record
	Item No 01 :-
	Earthw
	involving an ave
	0.5m, excavate
	disposed earth

SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
01	15.00	9.50	-	= 142.50	
01	30.00	10.00	-	= 300.00	
01	10.00	10.00	-	= 100.00	
01	30.00	10.00	-	= 300.00	
01	30.00	10.00	-	= 300.00	
01	30.00	10.00	-	= 300.00	
01	5.80	10.00	-	= 58.00	
				2215.50 Sqm.	
2215.00 Sqm					
pW. N.P AE(W)					

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. First and final bill
Name of Work .... Improvements to roads From and drains at To Ravishankar 263659
Name of Contractor of nature of Agency Residency layout in ward No. 07, Kodigehalli sub-division
Date of commencement of work → Akhilesh. P

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Date of completion:-	31-08-16					
	Date of recording:-	31-08-16					
	Item No 01:-						
	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 20mts and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	as per specifications complete as per specifications:						
	Qty vide page No: 2637/263649 → 607.00 cum.						
	At the rate of Rs: 75.60 →						45889.00
	Item. No.12:-						
	lead for disposal of debris shall be payable:						
	Qty vide Item No.01 → 607.00						
	At the rate of Rs: 140.00 →						84980.00
	Item. No.02:-						
	Providing and laying in position plain cement						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	concrete of mix M10 with graded granite metal -ta @ 0.465 cum mac 15cms, thick wall com all materials, labour specifications:
	Qty vide page
	At the rate

ASUREMENT BOOK

	Dimensions			Contents	Reference to last Measure
	Number 3	Length 4	Breadth 5	Depth 6	7	8
complete as per specifications:						
o: 2637/263649 → 607.00 cum.						458891.00
s: 75.60 →						
sposal of debris shall be payable:						
Item No. 01 → 607.00						84980.00
te of Rs: 140.00 →						
and laying in position plain cement						

M. A. R. 57 (Rule 116)
Measurement Book

No. B

rial No. .....
me of Work ..... From..... To.....263660
me of Contractor of nature of Agency .....
te of commencement of work .....

te	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	concrete of mix M10 with Opc cement @ 220kgs with 40mm graded granite metal coarse aggregates @ 0.892 cum and fine aggrega-tes @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cms thick well compacted, in foundation and plinth, including cost of all materials, labours, Hom of machinery, curing complete as per specifications:						
	Qty vide page	No 2637/263650 →			74.10 cum		
	At the rate	of Rs: 4800.00 →					355680.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item No. 03:- Providing and removing centering, shuttering, Struting, propping etc., and removal of form works for foundation, footings, bases of columns for mass concrete including cost of all materials etc, complete.						
	Qty vide page No. 2637 | 263652 → 685.56 Sqm.						
	At the rate of Rs: 236.52 →					16 2148.60	
	Item No. 04:- Providing and laying cement concrete being 20mm & down size granite jelly of ready mix concrete for RCC works						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	laid in 15cm thick la curing etc, including sh complete.
	Qty vide page No.
	At the rate of Rs:
	Item No 05:-
	Providing TM

SUREMENT BOOK

Dimensions				Contents	Reference to last Measurement
Number 3	Length 4	Breadth 5	Depth 6	7	8
amoving centering, shuttering,					
tc., and removal of form work for					
bases of columns for mass concrete					
materials etc.					
10. 2637/263652 → 685.56 sqm.					16214860
: 236.52 →					
d laying cement concrete using 20mm &					
Jelly of ready mix concrete for RCC works					

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263661

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	laid in 15cm thick layers and well compacted including, vibrating						
	curing etc, including smooth finish in CM 1:3, with all lead and lift etc.,						
	complete.						
	Qty vide page No. 2637/263654 → 82.55 cum.						4826790
	At the rate of Rs: 5847.12 →						
Item No 65. -							
	Providing TMT steel reinforcement for RCC work including						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications Qty vide page No. 2637/263654 → 4.04 tonne. At the rate of Rs: 71000.00 →						286840.00
	Item No.06:- scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all						

Serial No. .....
Name of Work .....
Name of Contractor of nature
Date of commencement of wo

Date	Full description, etc
1	2
	Lift and lo Qty vi At the Item No.07:- Com tonner powe rolling (includ

UREMENT BOOK

Dimensions				Contents	Reference to last Measurement
umber 3	Length 4	Breadth 5	Depth 6	7	8
	bending, hooking, placing in				
	or welding whatever required,				
	e and anchoring to the adjoining				
	ary complete as per specification				
	637/263654 → 4.04 tonne.				
	71000.00 →			288840.00	
	existing granular road surface to a				
	posal of scarified material within all				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263662

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	lift and leads upto 1000m complete as per specification.						
	Qty vide page No. 263637/263655 →				2215.00 sqm		
	At the rate of Rs: 18.00 →						39870.00
	Item No.07:-						
	Compaction of original ground with max of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, tools & plant of machinery:						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty vide page No.	2637	263657 →		2215.00		
	At the rate of Rs.	5.0 →				11075.00	
	Item No 08:- Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with pavers in subbase / base course on well prepared surface and compacting with vibratory						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	rollers to achieve the Qty vide pag At the rate Item No 09:- Providing an prepared surface surface and spra

REMENT BOOK

Dimensions			Contents	Reference to last Measurement
Length 4	Breadth 5	Depth 6	7	8
263657 →		2215.00		11075.00
→				
spreading and compacting graded				
ux macadam specifications including				
ith water at OMC in mechanical				
xed method of tipper to site,				
with pavers in sub base / base course				
and compacting with vibratory				

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263663

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	rollers to achieve the desired density :						
	Qty vide page No. 263/263657 →		553.75				796602.00
	At the rate of Rs: 1438.56 →						
	Item No.09:-						
	Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.60 kg/ sqm using						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	mechanical means complete as per specifications						
	Qty vide page No. 2637		~~2215.00~~ 2636.58.00 →			2215.00 sqm	
	At the rate of Rs 31.32 →					69373.80	
	Item No.10:-						
	Providing and laying semidense bituminous concrete 25mm to 30mm thick with 100-120TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agen
Date of commencement of work .....

Date	Full description, etc, of work
	2
	binder at 4.5 to 5%
	site, laying with hyd
	required grade, lev
	and tandem rollers
	specification clause
	with 80/100 grade
	paver.
	1st cross road

T BOOK

nsions Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
pecifications			
8.00			
00 →	2215.00 sqm		
		69373.80	
dense bituminous concrete 25mm			
tch type HMP producing an			
hour using crushed			
, premixed with bituminous			

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263661

erial No. .....
ame of Work ..... From..... To.....
ame of Contractor of nature of Agency .....
ate of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause 510.5.8 complete in all respects as per specifications with 80/100 grade bitumen using 40-60 HMP using mechanical paver.						
	1st cross road:	01	30.00	10.00	0.03 =	9.00	

31/8

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd cross road:-	01	13.00	10.00	0.03	= 3.90	
		01	30.00	9.50	0.03	= 8.55	
		01	15.00	9.50	0.03	= 4.28	
	3rd cross road:-	01	30.00	10.00	0.03	= 9.00	
		01	10.00	10.00	0.03	= 3.00	
	Checked						
	cross road towards shantivana 31/8	01	30.00	10.00	0.03	= 9.00	
		01	30.00	10.00	0.03	= 9.00	
		01	30.00	10.00	0.03	= 9.00	
		01	5.80	10.00	0.03	= 1.74	
					TOTAL =	66.40 cum	
	Qty Upto: 66.40 cum.						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	At the rate of Rs
	Item No. 11:-
	Providing and
	thick including reflectori
	thickness of 2.5mm is excl
	The finished surface.
	1st cross road:-

UREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
				Dimensions	
01	13.00	10.00	0.03	= 3.90	
01	30.00	9.50	0.03	= 8.55	
01	15.00	9.50	0.03	= 4.28	
01	30.00	10.00	0.03	= 9.00	
01	10.00	10.00	0.03	= 3.00	
01	30.00	10.00	0.03	= 9.00	
01	30.00	10.00	0.03	= 9.00	
01	30.00	10.00	0.03	= 9.00	
01	5.80	10.00	0.03	= 1.74	
			TOTAL =	66.40 cum	

cum.

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....
Name of Work ..... From..... To..... 263665
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	At the rate of Rs. 9000.00 →						597600.00
	Item No. 11:-						
	Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads @ 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC 35. The finished surface.						
	1st cross road:-	02	30.00	0.10	-	= 6.00	
		02	13.00	0.10	-	= 2.60	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd cross road:-	02	30.00	0.1	-	= 6.00	
		02	15.00	0.1	-	= 3.00	
	3rd cross road:-	02	30.00	0.1	-	= 6.00	
		02	10.00	0.1	-	= 2.00	
	cross roads towards chanthivana:	02	30.00	0.1	-	= 6.00	
		02	30.00	0.1	-	= 6.00	
		02	30.00	0.1	-	= 6.00	
		02	05.8	0.1	-	= 1.16	
					TOTAL -	44.76 Sqm	
	Qty bld to 43.40 Sqm						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	At the rate of R

C4FC
Mahadeva
30/

...UREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
02	30.00	0.1	-	= 6.00	
02	15.00	0.1	-	= 3.00	
02	30.00	0.1	-	= 6.00	
02	10.00	0.1	-	= 2.00	
02	30.00	0.1	-	= 6.00	
02	30.00	0.1	-	= 6.00	
02	30.00	0.1	-	= 6.00	
02	05.8	0.1	-	= 1.16	
			TOTAL -	44.76 Sqm	

43.40 Sqm

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. ..... From..... To..... 263666

Name of Work .....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	At the rate of Rs: 475.00 →						20615.00
	C&F Mehsana 30/8/16				Grand total :-		2953351.00
						Rupees Nil N.D AE(WH) 30/8/16	

MEASUREMENT BOOK

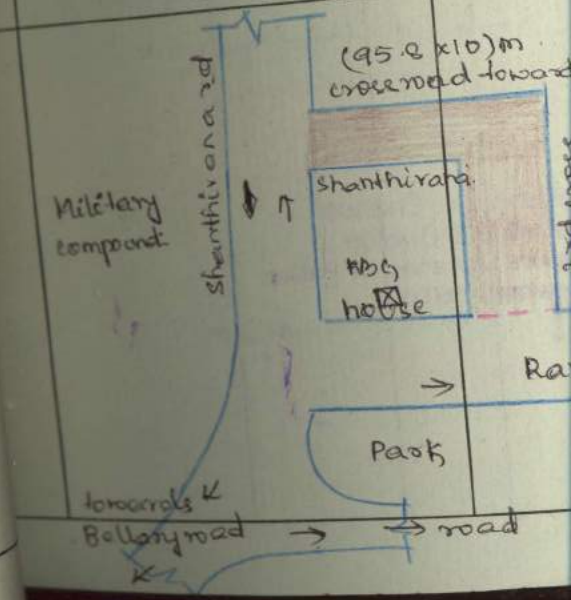
Royalty charges

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
			Jelly	Sand		cement:	
Sl.NO.	Details	Qty/unit:	Co-eff	Qty	Co-eff	Qty	
01.	40mm ↓ - 74.10 - cum		0.96	71.13	0.48	35.71	
02.	20mm ↓ - 82.55 - cum:		0.85	70.16	0.46	37.97	
03.	WMM I - 553.75 - cum		-	553.75			
04.	SDBC - 66.40 - cum:		1.40	92.96		73.68	
	Total:-			788.0			
	ABSTRACT						
01.	Coarse Aggregate:	X					
02.	Fine Aggregate:	X					

M. A. R.
Meas

Serial No. ..... From....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2	3



SUREMENT BOOK

Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Jelly	Sand		Cement	
Co-eff	Qty	Co-eff	Qty		
0.96	71.13	0.48	35.71		
0.85	70.16	0.46	37.97		
	553.75				
1.40	92.96				
	788.0			73.68	

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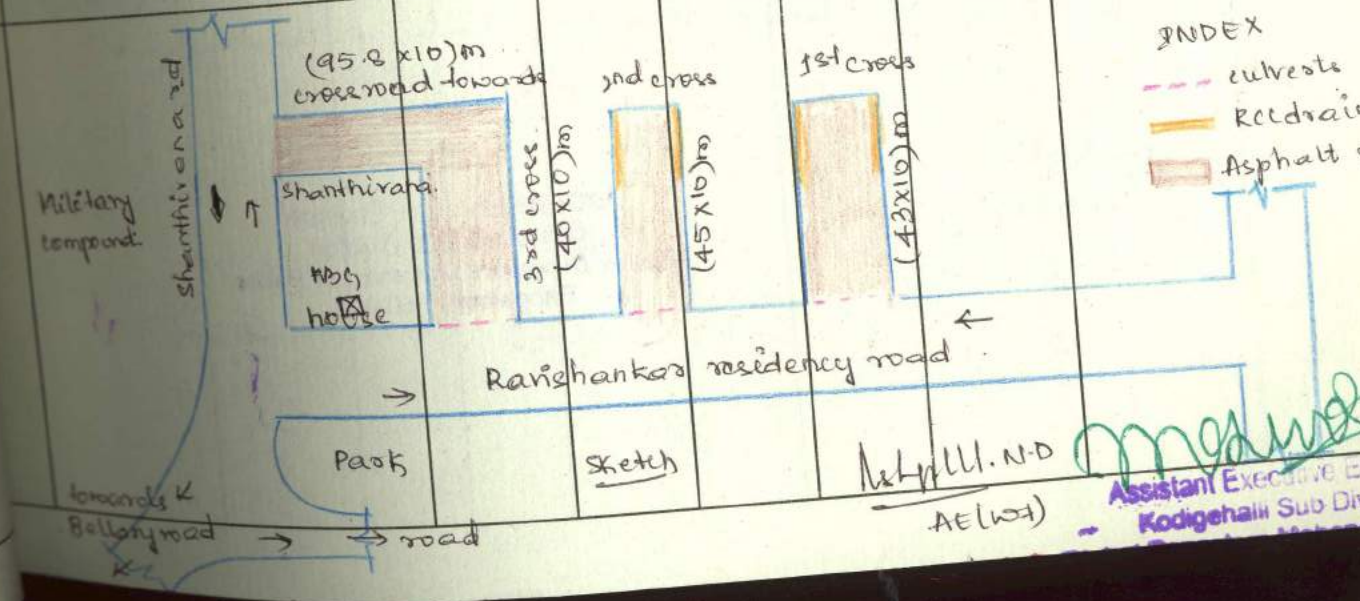
Measurement Book

No. B

263667

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8



M.Nagaraj. N.D
AE(Civil)

Assistant Executive Engineer
Kodigehalli Sub Division